

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX040519\
 Data File : VX008673.D
 Acq On : 05 Apr 2019 10:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 9:49:19 AM

Quant Time: Apr 05 13:55:38 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X032719W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Mar 27 12:01:15 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	34068	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	203460	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	177717	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	85449	29.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.93%
60) 4-Bromofluorobenzene	11.13	95	93038	30.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.17%
63) Toluene-d8	8.71	98	255656	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	40138	17.230 ug/l	99
3) Chloromethane	1.32	50	54103	17.726 ug/l	97
4) Vinyl Chloride	1.41	62	52409	17.035 ug/l	97
5) Bromomethane	1.64	94	24234	15.202 ug/l	99
6) Chloroethane	1.72	64	32541	16.161 ug/l	98
7) Trichlorofluoromethane	1.93	101	59627	17.462 ug/l	95
8) Diethyl Ether	2.18	74	27577	17.125 ug/l	80
9) 1,1,2-Trichlorotrifluoroet	2.39	101	38159	17.944 ug/l	93
10) 1,1-Dichloroethene	2.37	96	37521	17.392 ug/l	88
11) Methyl Iodide	2.51	142	25925	11.605 ug/l	97
12) Methyl Acetate	3.19	43	31188	17.837 ug/l	93
13) Acrolein	2.29	56	87034	173.504 ug/l	97
14) Acrylonitrile	3.14	53	148137	91.635 ug/l	99
15) Acetone	2.44	58	56154	112.642 ug/l	96
16) Carbon Disulfide	2.57	76	114198	17.016 ug/l	98
17) Allyl chloride	2.73	41	88727	18.299 ug/l	91
18) Methylene Chloride	2.85	84	47072	18.253 ug/l	88
19) trans-1,2-Dichloroethene	3.17	96	41744	18.111 ug/l	90
20) Diisopropyl ether	3.85	45	172125	18.239 ug/l #	93
21) 1,1-Dichloroethane	3.70	63	85140	17.973 ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	48642	18.262 ug/l #	81
23) tert-Butyl Alcohol	3.04	59	59006	90.390 ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	142347	17.953 ug/l	99
25) Chloroform	5.21	83	77392	18.037 ug/l	98
26) Cyclohexane	5.57	56	84179	18.292 ug/l #	82
29) 1,1-Dichloropropene	5.80	75	61076	17.843 ug/l	93
30) 2-Butanone	4.67	43	240446	95.527 ug/l	93
31) 2,2-Dichloropropane	4.58	77	61731	18.057 ug/l	94
32) 1,1,1-Trichloroethane	5.49	97	61408	17.276 ug/l	95
33) Carbon Tetrachloride	5.78	117	51541	17.331 ug/l	95
34) Benzene	6.13	78	184403	17.624 ug/l #	96
35) Methacrylonitrile	5.04	41	46264	18.074 ug/l	93
36) 1,2-Dichloroethane	6.19	62	66576	17.847 ug/l	97
37) Trichloroethene	7.21	130	43831m	18.216 ug/l	
38) Methylcyclohexane	7.46	83	76626	17.766 ug/l	88
39) 1,2-Dichloropropane	7.51	63	52039	17.535 ug/l	98
40) Dibromomethane	7.66	93	29676	17.262 ug/l	90

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	57870	17.120	ug/l	98
42) Vinyl Acetate	3.81	43	769697	90.207	ug/l #	93
43) Ethyl Acetate	4.82	43	80415	17.751	ug/l #	82
44) Isopropyl Acetate	6.44	43	127564	17.414	ug/l	98
45) 1,4-Dioxane	7.74	88	25352	347.653	ug/l #	82
46) Methyl methacrylate	7.77	41	64845	17.429	ug/l	84
47) n-amyl Acetate	10.90	43	114093	17.146	ug/l	93
48) t-1,3-Dichloropropene	9.04	75	65374	17.122	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	75415	17.659	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	44906	17.592	ug/l	96
51) Ethyl methacrylate	9.18	69	80559	16.959	ug/l	90
52) 1,3-Dichloropropane	9.37	76	79168	17.433	ug/l	100
53) Dibromochloromethane	9.58	129	42738	17.014	ug/l	100
54) 1,2-Dibromoethane	9.67	107	45666	17.354	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	275477	114.951	ug/l	95
56) Bromoform	10.85	173	29985	16.379	ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	419859	89.551	ug/l #	95
59) 2-Hexanone	9.49	43	349806	94.437	ug/l	96
61) Tetrachloroethene	9.34	164	37924	19.509	ug/l	97
62) Toluene	8.78	91	193815	18.013	ug/l	99
64) Chlorobenzene	10.13	112	112388	17.826	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	39832	17.919	ug/l	98
66) Ethyl Benzene	10.25	91	213304	17.860	ug/l	95
67) m/p-Xylenes	10.36	106	155076	35.599	ug/l	91
68) o-Xylene	10.69	106	75269	17.657	ug/l	93
69) Styrene	10.71	104	131384	17.713	ug/l	96
70) Isopropylbenzene	11.02	105	202921	18.046	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.26	83	73284	17.446	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	63055m	17.758	ug/l	
73) Bromobenzene	11.26	156	47769	17.856	ug/l	78
74) n-propylbenzene	11.36	91	238015	17.768	ug/l	94
75) 2-Chlorotoluene	11.42	91	140975	17.689	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	169731	17.655	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	22657	16.635	ug/l	94
78) 4-Chlorotoluene	11.51	91	160905	17.542	ug/l	91
79) tert-butylbenzene	12.06	119	175184	17.831	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	168703	17.600	ug/l	95
81) sec-Butylbenzene	11.94	105	192654	17.539	ug/l	97
82) p-Isopropyltoluene	12.06	119	175184	17.831	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	84885	17.872	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	84982	17.905	ug/l	96
85) n-Butylbenzene	12.38	91	161611	17.313	ug/l	97
86) Hexachloroethane	12.60	117	27419	16.704	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	85951	17.960	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15936	17.116	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.65	180	59883	18.140	ug/l	99
90) Hexachlorobutadiene	13.78	225	29625	18.628	ug/l	98
91) Naphthalene	13.83	128	202559	17.910	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	60947	18.329	ug/l	99

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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